

# 690 Series

- Inlet Size: 1½" NPT
- Radius: 26,5-33,0m (87'-108')
- Operating Pressure Range: 5,5-10,3 Bar (80-150 PSI)

Learn more at [Toro.com](http://Toro.com)

For nearly 40 years the 690 series has set the standard for durability and reliability in commercial applications. Extremely rugged, the 690 Series is constructed of brass, stainless steel and engineering plastics for unmatched performance in the most demanding environments.



## Features & Benefits

### Artificial Playing Surfaces

Radius and flow capabilities are perfect for cooling and rinsing artificial playing surfaces such as football fields.

### Electric Valve In Head Models

Provide individual head control that ensures run times can match differing soil, turf and terrain watering requirements, pressure regulation to ensure all nozzles perform at the same pressure and manual ON-OFF-auto control at the head.

### Fixed Arc Drives

Nine fixed arc drive assemblies ensure positive retention of the coverage area with no arc drift

### Balanced Application Rate

Used in single or double row applications these sprinklers operate at a slower speed over the non-overlap area and a faster speed over the overlapped areas to provide a balanced application rate.

## Specifications

### Dimensions

- Body diameter: 254mm (10")
- Body height: 405mm (16")

### Operating Specifications

- Radius: 26,5-33,0m (87' – 108')
- Flow Rate: 193,0-311,2 LPM (51.0 – 82.2 GPM)
- Operating Pressure Range: 5,5-10,3 Bar (80-150 psi)
- Pop-up height to nozzle: 20mm (¾")
- Inlet: NPT (1½")
- Check-O-Matic: Maintains 11,2m (37') of elevation
- Electric Valve-in-head Solenoid: 24V ac, 50/60 Hz
  - Inrush: 60 Hz, 0.30 amps
  - Holding: 60 Hz, 0.20 amps
- All internal components serviceable from the top

### Warranty

- Three years

690 Series Model List	
Model	Description
690	90° Part-circle sprinkler
691	180° Part-circle sprinkler
694	Full-circle sprinkler
696	2-speed (60°-120°) sprinkler
698	2-speed (180°-180°) sprinkler

## 690 Series Performance Data—Metric

Base Pressure			Nozzle Set 90				Nozzle Set 91				Nozzle Set 92			
Bar	kPa	Kg/cm <sup>2</sup>	Rad.	LPM	Prec. Rate* <sup>1</sup>		Rad.	LPM	Prec. Rate* <sup>1</sup>		Rad.	LPM	Prec. Rate* <sup>1</sup>	
					▲	■			▲	■			▲	■
5,5	550	5,61	26,5	193	19,0	16,5	29,3	232	18,7	16,2	30,5	280	20,8	18,0
6,9	690	7,04	27,4	216	19,9	17,2	30,5	278	20,7	17,9	32,9	311	19,9	17,2

## Specifying Information—690

69X-0X-XX-X							
Arc		Valve-In-Head Type		Nozzle		Pressure Regulation*	
69X		0X		XX		X	
1—90°	4—Full-circle	A—150°	1—Normally Open Hydraulic	90	8—80 psi		
2—180°	6—Full-circle, 2-speed (60°-120°)	B—165°	2—Check-O-Matic	91	1—100 psi		
	8—Full-circle, 2-speed (180°-180°)	C—195°	6—Electric	92			
		D—210°					

**Example:** When specifying a 690 Series Sprinkler with a 180° arc, electric valve-in-head, #91 nozzle, and pressure regulation at 5,5 Bars (80 psi), you would specify: **692-06-918**

\*Electric models only.

